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Information for Contributors

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BELAMARICH, F. A. (1976). Hemostasis in animals other than mammals: The role of cells. *In* "Progress in Hemostasis and Thrombosis" (T. Spaet, ed.), Vol. 3, pp. 191–220. Grune and Stratton, New York.

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Editor-in-Chief: DAVID SHEPRO

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edited by F.D. Stott, E.B. Raftery and L. Goulding
June 1980, xviii + 576pp., £21.50 (UK only) / $49.50, 0.12.672355.9

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Monographs of the Physiological Society No. 37

Local Mechanisms Controlling Blood Vessels

W.R. Keatinge and M. Clare Harman

April 1980, 150pp., £11.80 (UK only) / $27.00, 0.12.402850.0

Research undertaken during the last fifteen years has shown that blood and lymphatic vessels, and mammalian arteries in particular, are controlled by much more organized and complex local mechanisms than had previously been realized. These include specialized functions of inner and outer smooth muscle, as well as electrical discharges with unusual features. Discharges are conducted widely through the smooth muscle to produce rhythmical propulsive contractions, or only a short distance to amplify local contraction. There are also chemical routes of activation which are independent of electrical changes. The various processes play special roles in responses to vasomotor nerves and hormones, to injury and clotting blood, and to local changes in temperature and in chemical environment. These have only recently become clear enough to allow any coherent general analysis. This book aims to present such an analysis in a brief and convenient form, and provides extensive references for readers who wish to re-examine controversial details of the evidence. The mechanisms described are proving to be of major importance to an understanding not only of the normal functioning of the vascular system, but also of the causes and new approaches to the treatment of cardiovascular diseases.

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